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	Substitute for form 1449	B/PTO		Complete if Known			
	OUDD FREEDITAL			Application Number	09/638,485		
	SUPPLEME			Filing Date	August 14, 2000		
	INFORMATI			First Named Inventor	JACOBUS, Charles J.		
	STATEMEN'	T BY A	PPLICANT	Art Unit	2837		
	(use as many sheets as necessary)			Examiner Name	SMITH, Tyrone W.		
Ξ	Sheet 1	of	1	Attorney Docket Number	IMM069D		

	U.S. PATENT DOCUMENTS								
	Document Number								
Examiner	Cite No. ¹	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pagas, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
MS	1	6,219,034	4/17/01	Elbing, et al.					

F	Cite	Foreign Patent Document			Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	No.1	Country Code ³	Number ⁴	Kind Code ^s (# known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear
MS	2	JP	01-003664		7/19/1990	Taito Corporation	1
1/	3	JP	02-109714		1/13/1992	Epoch Co. and Key- Planning Co.	٧
V	4	JP	05-193862		1/27/1995	Sega Corporation	1
MS	5	JP	04-007371	·	8/3/1993	Taito Corporation	4 .
		OTHER	R PRIOR AR	T NON PATE	NT LITERATU	RE DOCUMENTS	
Examiner Initials *							
	6 SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1994.						

Examiner Signature	/Mansour Said/	Date Considered	11/12/2006
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EXPRESS MAIL NO EV 367776626US

	•	Notice of Defense	7 014 14	Application/Control No	Applicant(s)/Pa Reexamination JACOBUS ET	1
	•	Notice of Reference	s Cited	. Examiner	Art Unit	
	- 1	·	• •	Tyrone W Smith	2837	Page 1 of 1
				U.S. PATENT DOCUMENTS		·
*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	•	Classification
	. A	US-4278920	07-1981	Ruoff		318/2
	В	US-4621332 .	11-1986	Sugimoto et al	• .	364/513
	С	US-4791588	12-1988	Onda et al		364/513
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	· E	US-5266875	11-1993	Slotine et al		318/568.11
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Attorney Docket Number

Substitute for form 1449A/PTO Complete if Known Application Number 09/638,485 INFORMATION DISCLOSURE Filing Date August 14, 2000 STATEMENT BY APPLICANT Charles J. JACOBUS First Named Inventor Group Art Unit 2837 (use as many sheets as necessary) Examiner Name Tyrone W. Smith

		·	U.S. PATENT DOC	UMENTS	
Examiner	Cite No.	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MS	8	3,220,121	11/30/1985	Cutler	Vigures repress
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	AD	4,236,325	10/2/1980	Hall et al.	
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MS		8,111,577	8/29/2000	Zilles et al.	

Examiner Signature	/Mansour Said/	Date Considered	11/12/2006

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¹ Applicant's unique citation designation number (optional). ² Kinds of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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Substitute	for form 1449.	A/PTO		Complete if Known			
INICO	DAGATI	AN DIC	CLOCUDE	Application Number	09/638,485		
			CLOSURE	Filing Date	August 14, 2000		
STAT	STATEMENT BY APPLICANT		First Named Inventor	Charles J. JACOBUS			
				Group Art Unit	2837		
(use as many sheets as necessary)				Examiner Name	Tyrone W. Smith		
Sheet	2	of	5	Attorney Docket Number	IMM069D		

Examiner	Cite	F	oreign Patent Do	cument		Name of Patentee or	Pages, Columns, Unes,
Initials*	No.1	Country Code ³	Number ⁴	Kind Code* (# known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear
MS	BI	EP	EP0349086		1/31/1990	Visser	

Examiner Signature	/Mansour Said/	Date Considered	11/12/2006
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¹ Applicant's unique citation designation number (optional). ² Kinds of U.S. Patent Documents at www.uspio.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as Indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



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Substitute for form 1449A/PTO					Complete if Known	1
				Application Number	09/638,485	٦
INFORMATION DISCLOSURE	Filing Date	August 14, 2000	٦			
STAT	TEMENT B	Y A	PPLICANT	First Named Inventor	Charles J. JACOBUS	٦
				Group Art Unit	2837	J
 (use as many sheets as necessary)		Examiner Name	Tyrone W. Smith	7		
Sheet	3	of	5	Attorney Docket Number	IMM069D	J

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
MS	BJ	BAIGRIE, "Electric Control Loading – A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, November 6-8, 1990.					
	8K	IWATA, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp 287-292, 1993.					
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Examiner		Date	11/12/2006
Signature	/Mansour Said/	Considered	11/12/2000

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Complete if Known Substitute for form 1449A/PTO 09/638,485 Application Number INFORMATION DISCLOSURE August 14, 2000 Filing Date STATEMENT BY APPLICANT First Named Inventor Charles J. JACOBUS Group Art Unit 2837 (use as many sheets as necessary) Tyrone W. Smith **Examiner Name IMM069D** Sheet Attorney Docket Number

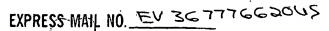
		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS				
Examiner Initiats * No. 1 MS ex		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
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	Examiner Signature	/Mansour Said/	Date Considered	11/12/2006
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Substitut	e for form 1449A/PTC)		Complete If Known				
				Application Number	09/638,485			
INFC	RMATION	DIS	CLOSURE	Filing Date	August 14, 2000			
STA	STATEMENT BY APPLICANT			First Named Inventor	Charles J. JACOBUS			
	•			Group Art Unit	2837			
(use as many sheets as necessary)		Examiner Name	Tyrone W. Smith					
Sheet	5	of	5	Attorney Docket Number	IMM069D			

	Τ	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	_
Examiner Cite No.1 MS CL		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
		BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980.	
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	со	MARCUS, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8- 11, 1994.	
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	cs	GOBEL et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1995.	
	СТ	PIMENTEL et al., "Virtual Reality: through the new looking glass," 2 nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.	
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V	cv	OUHYOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, 21-24 August 1995.	
MS	cw	KACZMAREK et al., "Tactile Displays," Virtual Environment Technologies.	

Examiner Signature	/Mansour Said/	Date Considered	11/12/2006
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Form 1449 (Modified)	Atty Docket No.:	Application No.:
	IMM1P069D	09/638,485
Information Disclosure	Applicant:	
Statement By Applicant	Schuler et al.	•
	Filing Date:	Group:
(Use Several Sheets if Necessary)	8/14/00	2837

Examiner					T	Sub-	Filing
Initial	No.	Patent No.	Date	Patentee	Class	class	Date
. MS	Α	4,937,685	6/26/90	Barker et al.	360	14.1	12/2/83
	В	4,964,004	10/16/90	Barker	360·	14.1	6/16/89
	C	4,4983,901	1/8/91	Lehmer	318	685	4/21/89
	D	5,076,517	12/31/91	Ferranti et al.	244	228	8/14/89
	E	5,184,319	2/2/93	Kramer	364	806	2/2/90
	·F	5,286,203	2/15/94	Fuller et al.	434	45	10/7/92
	G.	5,354,162	10/11/94	Burdea et al.	414	5.	8/31/92
	H	5,428,748	6/27/95	Davidson et al.	395	275	9/24/92
	I	5,634,794	6/3/97	Hildreth et al.	434	37	3/23/95
L V	J	5,742,278	4/21/98	Chen et al.	345	156	11/1/95
MS	K	5,781,172	7/14/98	Engel et al.	345	164	6/16/97

Foreign Patent or Published Foreign Patent Application

Examiner		Document	Publication	Country or		Sub-	Trans	slation
Initial	No.	No.	Date	Patent Office	Class	class	Yes	No
MS	L	0085518	10.08.83	EPO			X	
	M	0111992	27.06.84	EPO		-	X	
	N	0349086	03.01.90	EPO		-	X	
V	0	2235310	27.02.91	GB	-		Х	
MS	P	0326439	2.8.89	EPO				

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MS	A	5,999,168	12/7/99	Rosenberg et al.	345	161	2/21/97
MS	В	6,088,017	7/11/00	Tremblay et al.	345	156	4/24/98
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MS .	L	95/20788	3.8.95	PCT	_		X	
	M	0626634	30.11.94	EPO		-	X	
	N	H6-210065	2.8.94	Japan		_	X	
V	Ó	H4-92691	25.3.92	Japan	<u> </u>		Х	
MS	P	H5-86387	22.11.93	Japan	_		X	

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MS	L	S62-194389	10.12.87	Japan	1		X	
•	M	0607580	27.7.94	EPO	1		X	
	N_	92/00559	9.1.92	PCT			X	1
	0	JP4092691	25.3.92	Japan		1	X	
MS	·P	JP7024147	27.1.95	Japan		11	X	

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MS	· A	3,919,691	11/11/75	Noll	340	172.5	5/26/71
	В	4,436,188	03/13/84	Jones .	188	378	11/18/81
	С	4,603,284	7/29/86	Perzley	318	568	6/5/84
Λ	D	4,604,016	8/5/86	Joyce	414	7	8/3/83
	E	4,775,289	10/4/88	Kazerooni	414	735	9/25/87
\ .	F	4,795,296	1/3/89	Jau	414	5	11/17/86
	G	4,800,721	01/31/89	Cemenska et al.	60	393	2/13/87
	H	4,861,269	8/29/89	Meenan, Jr.	434	45	03/30/88
	I	4,925,312	5/15/90	Onaga et al.	364	513	3/21/88
V	J	4,949,119	8/14/90	Moncrief et al.	364	578	1/12/89
MS	K	5,007,300	4/16/91	Siva	74	471 XY	1/22/90

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-	S	Schmult, "Application Areas	Schmult, "Application Areas for a Force-Feedback Joystick", Department					
MS		of Machine Perception Resea	rch AT&T Bell Laboratori	ies, Holmdel, New				
		Jersey, DSC-Vol 49, Interfac						
	T	Adelstein, et al., "Design and	Implementation of a Forc	e Reflecting				
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	В	5,065,145	11/12/91	Purcell	340	706	10/6/89
	C	5,103,404	4/7/92	McIntosh	318	568.22	12/20/89
	D	5,107,080	4/21/92	Rosen	200	6A	12/1/89
	E	5,116,180	5/26/92	Fung et al.	414	5	5/3/90
	F	5,146,566	9/8/92	Hollis, Jr.	395	275	05/29/91
	G	5,156,363	10/20/92	Cizewski et al.	244	223	2/28/91
	H	5,185,561	2/9/93	Good et al.	318	432	7/23/91
	· I	5,193,963	3/16/93	McAffee et al.	414 .	5	10/31/90
V	J	5,197,003	3/23/93	Moncrief et al.	364	410	4/7/92
MS	K	5,203,563	4/20/93	Loper, III	273	148	3/21/91

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MS	T		Seeing: Issues in Force Display", Department rsity of North Carolina at Chapel Hill, Chapel					
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		В	5,228,356	7/20/93	Chuang	74	471	11/25/91
		C	5,264,768	11/23/93	Gregory et al.	318	56.1	10/6/92
		D	5,275,565	2/23/93	Moncrief	434	29	2/23/93
		E	5,381,080	1/10/95	Schnell et al.	318	566	2/18/93
		F	5,414,337	5/9/95	Schuler	318	561	6/11/93
		G	5,459,382	10/17/95	Jacobus et al.	318	568.11	6/9/94
		H	5,513,100	4/30/96	Parker et al.	364	167.01	6/10/93
		I	5,576,727	11/19/96	Rosenberg et al.	345	179 -	6/5/95
	/	J.	5,577,981	11/26/96	Jarvik	482	4	8/4/95
	MS	K	5,587,937	12/24/96	Massie et al.	364 .	578	4/25/95

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	В	5,589,854	12/31/96	Tsai	345	161	6/22/95
	C	5,625,576	4/29/97	Massie et al.	364	578	10/1/93
	D	5,642,469	6/24/97	Hannaford	395	99	11/3/94
	E	5,643,087	7/1/97	Marcus et al.	463	38	7/29/94
	F	5,709,219	01/20/98	Chen et al.	128	782	08/01/96
	G	5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
	Н	5,731,804	3/24/98	Rosenberg	345	156	1/18/95
	I	5,734,373	3/31/98	Rosenberg et al.	345	161	12/1/95
V	J	5,767,839	6/16/98	Rosenberg	345	161	3/3/95
MS	K	5,769,640	7/23/98	Jacobus et al.	434	262	8/10/95

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MS	· A	5,790,108	8/4/98	Salcudean et al.	345	184	10/23/92
MS	В	5,889,670	3/30/99	Schuler et al.	364	186	6/11/96
MS	С	5,889,672	3/30/99	Schuler et al.	364	188	6/3/98
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		Interaction, CHI 1994.						
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	В	5,113,179	5/12/92	Scott-Jackson	340	709	3/16/90
	С	5,209,661	5/93	Hildreth et al.	434	45	10/29/90
	D	5,220,260	6/15/93	Schuler .	318	561	10/24/91
	E	5,366,376	11/22/94	Copperman et al.	434	69.	5/22/92
	F	5,368,484	11/29/84	Copperman et al.	434	69	2/17/93
	G	5,435,729	7/95	Hildreth et al.	434	365	3/19/93
	H	5,559,432	9/24/96	Logue .	324	207.17	6/29/94
	Ī	5,701,140	12/23/97	Rosenberg et al.	345	156	7/12/94
V	J	5,739,811	4/14/98	Rosenberg et al.	345	161	9/27/95
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